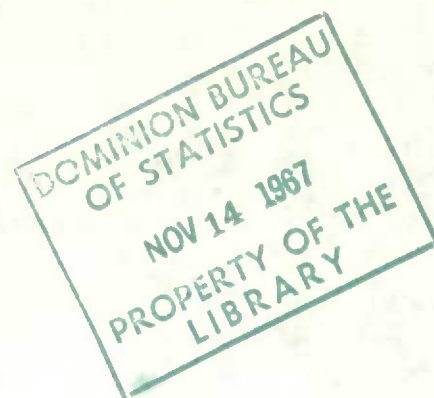


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# ORNAMENTAL AND ARCHITECTURAL METAL INDUSTRY

1965

## ANNUAL CENSUS OF MANUFACTURES

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## PUBLICATIONS

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## ORNAMENTAL AND ARCHITECTURAL METAL INDUSTRY

1965

For statistical purposes the industry titled Ornamental and Architectural Metal Industry in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing ornamental metal work, stairs and staircases, fire escapes, grilles, railings, metal sash, doors and frames and metal partitions. Establishments included in this industry may install the products of their own manufacture but they are primarily engaged in fabrication. Establishments primarily engaged in the erection or installation or purchased fabricated metal products are included in Industry No. 421—Special-trade Contractors.

An analysis of the principal statistics indicates that the total value of shipments of goods of own manufacture increased by 6 per cent, the cost of materials used in production of goods of own manufacture increased by 8 per cent and the value of production increased by 7 per cent. The ratio of materials used to value of production was 50 per cent in 1965 in comparison to 49.7 per cent in 1964. Value added on products of own manufacture increased by 5 per cent in 1965.

During 1965 ornamental and architectural products accounted for 95 per cent of the total value of shipments or products of own manufacture by the firms classified to this industry. Some of the other products shipped were cranes and hoisting systems, furniture, truck bodies, industrial ovens, air conditioning units, trailers, transmission towers and highway guardrails.

### SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

.. figures not available.

... figures not appropriate or not applicable.

-- nil or zero.

-- amount too small to be expressed.

p preliminary figures.

r revised figures.

x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity.	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals .....	551	6,939	14,496	25,842	1,495	60,877	133,580	71,648	303	1,046	10,461	43,446	74,697
1962													
Totals .....	547	7,948	16,626	30,368	1,679	76,751	154,577	77,223	299	1,052	11,640	48,503	81,990
1963													
Totals .....	547	8,792	18,488	35,177	1,886	88,374	174,427	85,359	269	1,085	12,459	54,155	90,854
1964													
Newfoundland .....	4	41	82	117	13	143	441	285	—	—	54	174	284
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	10	107	245	358	24	703	1,737	1,009	x	x	157	549	1,056
New Brunswick .....	4	18	36	48	3	137	306	167	x	x	29	91	167
Quebec .....	246	2,782	5,953	10,801	596	28,927	56,356	27,400	154	604	3,696	15,730	27,767
Ontario .....	250	4,572	9,925	20,298	1,217	51,496	106,529	54,169	97	411	6,611	31,781	56,720
Manitoba .....	21	241	486	883	37	1,574	4,054	2,428	11	43	334	1,372	2,477
Saskatchewan .....	13	65	137	234	20	547	1,112	588	5	17	86	331	599
Alberta .....	33	902	1,866	3,212	123	10,543	17,761	7,262	11	54	1,262	5,010	9,813
British Columbia .....	60	431	857	2,049	113	5,090	9,991	4,776	36	130	579	2,968	4,801
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	641	9,159	19,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684
1965													
Newfoundland .....	4	36	71	109	12	201	514	303	—	—	47	148	305
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	14	169	345	518	30	855	2,020	1,128	4	15	232	824	1,317
New Brunswick .....	3	6	12	26	1	59	109	49	1	3	8	34	67
Quebec .....	239	2,928	6,348	12,307	656	31,486	58,526	26,637	142	564	3,900	17,383	27,779
Ontario .....	244	4,766	10,149	22,099	1,283	54,195	113,579	58,696	94	460	6,810	34,031	61,315
Manitoba .....	20	256	528	998	43	1,838	4,366	2,561	13	54	343	1,452	2,584
Saskatchewan .....	13	52	106	189	13	329	704	365	7	25	67	254	400
Alberta .....	36	1,014	2,045	3,677	173	13,158	21,956	8,896	7	31	1,434	5,933	11,967
British Columbia .....	61	460	928	2,173	131	5,246	10,142	4,843	33	132	598	3,075	4,878
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	634	9,687	20,530	42,096	2,343	107,367	211,916	103,478	301	1,285	13,439	63,135	110,611

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000			\$'000
1964													
Under \$10,000 .....	63	5	10	14	10	147	403	245	64	139	5	14	245
\$ 10,000 to \$ 24,999 .....	88	83	166	249	33	634	1,541	874	85	290	93	281	883
25,000 " 49,999 .....	111	285	578	973	82	1,681	4,042	2,293	84	381	341	1,179	2,314
50,000 " 99,999 .....	101	495	1,005	1,829	161	3,197	7,367	4,040	56	287	634	2,392	4,168
100,000 " 199,999 .....	94	800	1,661	3,132	248	5,825	13,142	7,092	28	162	1,091	4,525	7,420
200,000 " 499,999 .....	99	1,708	3,651	7,076	375	15,517	31,806	15,993	1	12	2,277	10,255	16,164
500,000 " 999,999 .....	39	1,192	2,583	5,073	242	14,107	27,511	13,285	—	—	1,617	7,672	13,288
1,000,000 " 4,999,999 .....	41	3,207	6,974	13,382	743	38,636	76,963	38,382	—	—	4,598	21,323	40,636
5,000,000 and over .....	5	1,384	2,960	6,272	251	19,415	35,512	15,881	—	—	2,152	10,365	18,567
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	641	9,159	19,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684
1965													
Under \$10,000 .....	59	12	23	26	10	142	389	237	59	150	13	29	237
\$ 10,000 to \$ 24,999 .....	82	89	177	281	37	593	1,366	746	76	291	119	334	899
25,000 " 49,999 .....	95	247	497	845	76	1,489	2,453	1,893	78	353	293	1,029	1,939
50,000 " 99,999 .....	109	501	1,009	2,014	166	3,425	7,704	4,062	63	345	633	2,560	4,257
100,000 " 199,999 .....	104	923	1,883	3,729	291	7,130	15,132	8,010	24	143	1,245	5,229	8,438
200,000 " 499,999 .....	90	1,636	3,438	6,997	356	13,866	29,053	14,910	1	4	2,131	9,738	15,129
500,000 " 999,999 .....	50	1,500	3,217	6,657	360	16,586	23,144	16,139	—	—	2,054	9,955	16,913
1,000,000 " 4,999,999 .....	41	3,622	7,798	16,232	783	43,125	85,353	42,604	—	—	5,167	25,371	44,175
5,000,000 and over .....	4	1,157	2,488	5,316	265	21,012	36,321	14,878	—	—	1,784	8,889	18,625
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	634	9,687	20,530	42,096	2,343	107,367	211,916	103,478	301	1,285	13,439	63,135	110,611

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000 .....	108	29	58	92	25	500	1,091	566	103	269	35	108	573
\$ 10,000 to \$ 24,999 .....	142	303	615	972	99	2,097	4,614	2,422	119	484	358	1,170	2,445
25,000 " 49,999 .....	112	531	1,083	1,972	176	3,440	7,898	4,250	65	332	680	2,571	4,376
50,000 " 99,999 .....	90	747	1,545	2,859	241	6,665	13,432	6,481	28	161	1,049	4,310	6,881
100,000 " 199,999 .....	86	1,302	2,712	5,358	300	12,803	24,966	11,985	3	25	1,725	7,801	12,152
200,000 " 499,999 .....	58	1,697	3,753	7,141	326	17,771	35,856	17,954	—	—	2,250	10,437	17,991
500,000 " 999,999 .....	29	1,803	3,884	7,303	375	22,516	42,495	19,728	—	—	2,608	11,726	21,177
1,000,000 " 4,999,999 .....	16	2,747	5,940	12,303	603	33,369	67,936	34,698	—	—	4,103	19,882	38,110
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	641	9,159	19,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684
1965													
Under \$10,000 .....	106	48	95	136	29	455	1,037	562	105	319	72	168	703
\$ 10,000 to \$ 24,999 .....	121	248	498	841	87	1,807	3,894	2,004	100	430	301	1,029	2,066
25,000 " 49,999 .....	113	503	1,018	1,961	176	3,668	7,888	4,001	65	360	634	2,517	4,250
50,000 " 99,999 .....	101	887	1,811	3,543	267	7,043	14,491	7,207	26	149	1,180	4,917	7,566
100,000 " 199,999 .....	82	1,295	2,697	5,293	318	12,818	24,617	11,712	5	27	1,703	7,595	11,869
200,000 " 499,999 .....	63	1,789	3,844	8,195	361	16,882	35,845	18,633	—	—	2,377	11,813	18,701
500,000 " 999,999 .....	29	2,022	4,218	8,451	445	26,930	47,123	20,428	—	—	2,781	12,918	22,388
1,000,000 " 4,999,999 .....	19	2,895	6,350	13,676	661	37,763	77,021	38,930	—	—	4,391	22,177	43,071
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	634	9,687	20,530	42,096	2,343	107,367	211,916	103,478	301	1,285	13,439	63,135	110,611

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1964</b>													
Under \$10,000 .....	107	26	52	81	24	485	1,067	558	103	269	30	93	557
\$ 10,000 to \$ 24,999 .....	139	293	594	935	97	2,011	4,441	2,338	117	474	347	1,126	2,350
25,000 " 49,999 .....	111	508	1,037	1,894	165	3,343	7,661	4,122	64	319	645	2,430	4,171
50,000 " 99,999 .....	89	697	1,431	2,664	224	5,703	12,193	6,232	31	184	954	3,911	6,304
100,000 " 199,999 .....	92	1,387	2,893	5,641	332	14,227	26,945	12,486	3	25	1,866	8,335	12,974
200,000 " 499,999 .....	57	1,662	3,670	7,001	319	16,909	34,514	17,481	—	—	2,205	10,218	17,509
500,000 " 999,999 .....	28	1,714	3,701	6,948	361	21,640	40,265	18,334	—	—	2,356	10,580	19,048
1,000,000 " 4,999,999 .....	18	2,872	6,211	12,836	625	34,843	71,201	36,534	—	—	4,405	21,313	40,771
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>641</b>	<b>9,159</b>	<b>19,589</b>	<b>38,000</b>	<b>2,147</b>	<b>99,160</b>	<b>198,288</b>	<b>98,085</b>	<b>318</b>	<b>1,271</b>	<b>12,808</b>	<b>58,005</b>	<b>103,684</b>
<b>1965</b>													
Under \$10,000 .....	102	36	71	93	24	421	990	545	101	308	39	102	547
\$ 10,000 to \$ 24,999 .....	122	244	489	817	87	1,773	3,843	1,987	103	434	297	1,002	2,023
25,000 " 49,999 .....	110	485	977	1,885	166	3,427	7,469	3,894	66	367	598	2,347	3,993
50,000 " 99,999 .....	101	844	1,713	3,358	262	6,908	14,192	6,973	26	149	1,111	4,648	7,191
100,000 " 199,999 .....	85	1,294	2,686	5,293	327	13,024	24,835	11,709	5	27	1,747	7,683	12,002
200,000 " 499,999 .....	66	1,867	4,027	8,523	370	17,121	36,444	19,012	—	—	2,475	12,258	19,399
500,000 " 999,999 .....	26	1,836	3,816	7,626	413	24,162	42,156	18,185	—	—	2,455	11,410	18,729
1,000,000 " 4,999,999 .....	22	3,081	6,751	14,502	693	40,531	81,987	41,173	—	—	4,717	23,685	46,728
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>634</b>	<b>9,687</b>	<b>20,530</b>	<b>42,096</b>	<b>2,343</b>	<b>107,367</b>	<b>211,916</b>	<b>103,478</b>	<b>301</b>	<b>1,285</b>	<b>13,439</b>	<b>63,135</b>	<b>110,611</b>

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1964</b>													
Under 5 employed .....	252	304	618	1,051	131	2,751	6,258	3,385	229	782	353	1,237	3,400
5- 14 employed .....	201	1,228	2,530	4,828	389	9,897	21,709	11,409	87	470	1,614	6,650	11,491
15- 49 " .....	134	2,632	5,641	10,552	588	26,827	52,711	25,494	2	19	3,556	15,704	26,049
50- 99 " .....	28	1,367	3,014	5,997	289	17,333	32,897	15,410	—	—	1,858	9,046	15,787
100-199 " .....	19	1,929	4,101	7,702	390	21,080	42,421	21,664	—	—	2,719	12,267	23,575
200-499 " .....	7	1,699	3,685	7,870	359	21,272	42,291	20,722	—	—	2,708	13,102	23,383
500 employed and over .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>641</b>	<b>9,159</b>	<b>19,589</b>	<b>38,000</b>	<b>2,147</b>	<b>99,160</b>	<b>198,288</b>	<b>98,085</b>	<b>318</b>	<b>1,271</b>	<b>12,808</b>	<b>58,005</b>	<b>103,684</b>
<b>1965</b>													
Under 5 employed .....	227	266	534	950	122	2,625	5,688	2,949	205	763	318	1,153	2,992
5- 14 employed .....	208	1,239	2,518	5,104	412	10,001	21,526	11,147	91	491	1,611	6,844	11,404
15- 49 " .....	145	2,959	6,245	12,581	653	29,702	58,931	29,084	5	30	3,945	18,128	29,791
50- 99 " .....	28	1,398	3,080	6,280	364	19,217	36,313	17,142	—	—	1,925	9,729	17,740
100-199 " .....	18	1,823	3,820	7,898	368	20,400	40,003	19,972	—	—	2,555	12,011	21,779
200-499 " .....	5	815	1,799	4,111	256	13,893	27,374	12,554	—	—	1,341	7,200	12,555
500 employed and over .....	3	1,187	2,524	5,172	169	11,529	22,081	10,630	—	—	1,744	8,070	14,350
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>634</b>	<b>9,687</b>	<b>20,530</b>	<b>42,096</b>	<b>2,343</b>	<b>107,367</b>	<b>211,916</b>	<b>103,478</b>	<b>301</b>	<b>1,285</b>	<b>13,439</b>	<b>63,135</b>	<b>110,611</b>

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
<b>1964</b>													
Individual ownerships .....	232	450	918	1,624	156	3,241	7,349	3,965	232	915	475	1,707	3,996
Partnerships .....	40	130	262	494	48	1,038	2,477	1,391	86	356	140	522	1,417
Incorporated companies .....	369	8,579	18,409	35,882	1,942	94,882	188,461	92,729	...	...	12,193	55,776	98,271
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>641</b>	<b>9,159</b>	<b>19,589</b>	<b>38,000</b>	<b>2,147</b>	<b>99,160</b>	<b>198,288</b>	<b>98,085</b>	<b>318</b>	<b>1,271</b>	<b>12,808</b>	<b>58,005</b>	<b>103,684</b>
<b>1965</b>													
Individual ownerships .....	211	427	859	1,583	144	3,066	6,869	3,674	213	894	457	1,688	3,733
Partnerships .....	44	149	299	608	52	1,311	2,966	1,612	88	391	164	652	1,621
Incorporated companies .....	279	9,111	19,372	39,905	2,148	102,990	202,081	98,191	...	...	12,818	60,795	105,258
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>634</b>	<b>9,687</b>	<b>20,530</b>	<b>42,096</b>	<b>2,343</b>	<b>107,367</b>	<b>211,916</b>	<b>103,478</b>	<b>301</b>	<b>1,285</b>	<b>13,439</b>	<b>63,135</b>	<b>110,611</b>

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
	\$'000					
<b>Output</b>						
1. Shipments and other revenue .....	198,288	211,916	16,364	19,398	214,652	231,314
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	6,336	6,178	...	...	6,336	6,178
Finished goods .....	4,234	4,331	...	...	4,234	4,331
Deduct opening—Goods in process .....	5,047	5,382	...	...	5,047	5,382
Finished goods .....	4,419	3,854	...	...	4,419	3,854
2. Net inventory change .....	1,104	1,273	...	...	1,104	1,273
3. Gross output (1 + 2) .....	199,392	213,189	16,364	19,398	215,756	232,587
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	10,265	11,005	10,265	11,005
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	960	1,393	960	1,393
Deduct closing .....	...	...	1,300	1,294	1,300	1,294
5. Cost of goods sold (not of own manufacture) .....	...	...	9,925	11,104	9,925	11,104
6. Materials, supplies, etc. ....	99,160	107,367	839	1,160	99,999	108,527
7. Fuel and electricity .....	2,147	2,343	...	...	2,147	2,343
8. Gross input (5 + 6 + 7) .....	101,307	109,710	10,764	12,264	112,071	121,974
Value added (3 - 8) .....	98,085	103,478	5,599	7,360	103,684	110,611

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istra- tive and office	Sales and distri- bution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
number										\$'000					
1964															
Newfoundland .....	36	5	—	—	7	2	4	—	47	7	117	—	35	21	174
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	102	5	—	—	21	11	18	—	141	16	358	—	129	63	549
New Brunswick .....	18	—	—	—	2	3	6	—	26	3	48	—	20	23	91
Quebec .....	2,751	31	—	—	560	141	187	26	3,498	198	10,801	—	3,654	1,274	15,730
Ontario .....	4,329	243	2	—	1,061	392	507	77	5,899	712	20,298	10	7,940	3,534	31,781
Manitoba .....	234	7	—	—	52	17	24	—	310	24	883	—	348	141	1,372
Saskatchewan .....	63	2	—	—	15	3	3	—	81	5	234	—	84	12	331
Alberta .....	845	57	—	—	202	79	77	2	1,124	138	3,212	—	1,388	410	5,010
British Columbia .....	428	3	—	—	92	25	29	2	549	30	2,049	—	675	244	2,968
Yukon and Northwest Terri- tories .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	8,806	353	2	—	2,012	673	855	107	11,675	1,133	38,000	10	14,273	5,723	58,005
1965															
Newfoundland .....	36	—	—	—	5	2	4	—	45	2	109	—	25	14	148
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	161	8	—	—	27	17	18	1	206	26	418	—	225	82	824
New Brunswick .....	6	—	—	—	1	1	—	—	7	1	26	—	7	—	34
Quebec .....	2,899	29	10	—	571	158	221	12	3,701	199	12,307	49	3,905	1,122	17,383
Ontario .....	4,526	240	12	—	1,054	411	476	91	6,068	742	22,099	72	8,231	3,629	34,031
Manitoba .....	249	7	—	—	50	13	24	—	323	20	998	—	308	146	1,452
Saskatchewan .....	49	3	—	—	11	4	—	—	60	7	189	—	66	—	254
Alberta .....	950	64	—	—	98	51	217	54	1,265	169	3,677	—	788	1,468	5,933
British Columbia .....	448	12	—	—	80	31	25	2	553	45	2,173	—	648	254	3,075
Yukon and Northwest Terri- tories .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	9,324	363	22	—	1,897	688	985	160	12,228	1,211	42,096	121	14,203	6,715	63,135

TABLE 9. Production and Related Workers, — Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	6,601	243	6,831	258
February .....	6,643	246	6,680	265
March .....	6,717	276	6,655	243
April .....	6,790	295	6,749	264
May .....	7,096	325	7,183	301
June .....	7,546	344	7,815	334
July .....	7,633	352	7,951	352
August .....	7,828	391	8,176	378
September .....	7,785	376	7,962	386
October .....	7,854	450	8,200	417
November .....	7,869	417	8,123	399
December .....	7,616	356	7,805	338
Averages .....	7,341	335	7,690	331
Establishments reporting annual averages (small establishments only) .....	1,465	18	1,634	32
Average for all establishments .....	8,806	353	9,324	363

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	53	—	—	53	—	53
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	198	27	35	259	66	326
New Brunswick .....	8	—	—	8	—	8
Quebec .....	6,050	1,294	385	7,729	247	7,976
Ontario .....	9,120	3,584	2,899	15,604	1,064	16,668
Manitoba .....	418	151	31	600	9	609
Saskatchewan .....	93	3	4	100	3	103
Alberta .....	2,924	214	450	3,588	3	3,590
British Columbia .....	910	109	51	1,070	2	1,072
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	19,774	5,382	3,854	29,011	1,393	30,404
Closing:						
Newfoundland .....	49	—	1	50	1	51
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	205	38	16	260	76	336
New Brunswick .....	14	—	—	14	—	14
Quebec .....	6,827	1,516	416	8,758	293	9,051
Ontario .....	10,853	3,920	3,160	17,933	868	18,801
Manitoba .....	572	241	19	831	12	843
Saskatchewan .....	117	3	7	127	7	134
Alberta .....	3,464	325	610	4,398	34	4,432
British Columbia .....	1,187	135	102	1,424	3	1,429
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	23,288	6,178	4,331	33,797	1,294	35,090

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	147	177	3
(b) Imported .....	"	268	139	2
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	82	14	—
Lignite coal .....	"	—	—	—
Coke .....	"	6	6	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	1,202,163	1,274,605	522
Fuel oil including kerosene or coal oil .....	"	1,707,817	1,485,467	214
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	15,007	45,442	15
(b) Other manufactured gas .....	M cu. ft.	—	—	—
(c) Natural gas .....	"	365,333	508,569	331
Other fuel .....	...	—	...	1
Electricity purchased .....	kwh.	49,658,786	54,270,464	673
Steam purchased .....	...	5	...	6
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	503	...	515
3. All establishments:				
<b>Total fuel and electricity used .....</b>	<b>...</b>	<b>2,147</b>	<b>...</b>	<b>2,343</b>

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Castings (rough and semi-finished received from foundry):				
Iron (gray and malleable) .....	ton 1,158	232	1,098	235
Steel .....	" 1,427	307	4,243	860
Steel except alloy):				
Bars .....	" 70,943	9,051	75,345	10,161
Plates .....	" 8,002	1,297	8,390	1,332
Sheets:				
Plain .....	" 39,186	6,132	37,659	5,868
Aluminized .....	" 181	32	4,315	859
Galvanized .....	" 20,244	3,864	21,543	4,023
Tinplate .....	" 78	14	178	30
Strip .....	" 5,339	860	8,615	1,395
Structural shapes (unfabricated) .....	" 38,938	6,921	51,940	8,345
Wire .....	" 836	183	888	156
Alloy steel in all forms:				
Stainless:				
Billets, bars and rods .....	... ..	227	...	193
Other .....	... ..	515	...	1,022
Other alloy and tool steel (including carbon, alloy and high speed steels):				
Billets, bars and rods .....	... ..	61	...	76
Other iron and steel .....	... ..	1,886	...	2,334
Non-ferrous metals:				
Aluminum:				
Castings .....	lb. 3,961,052	1,968	2,914,763	1,185
Extrusions .....	" 31,145,618	15,011	35,008,121	15,941
Sheet .....	" 11,484,188	4,917	6,765,793	3,010
Other forms .....	" 13,518,911	4,557	12,040,870	4,073
Brass and bronze .....	" 390,637	216	395,035	228
Copper:				
Sheet .....	" 11,605	7	31,045	16
Wire .....	" 6,890	5	6,700	5
Other forms .....	" 175,793	101	270,903	154
Lead .....	" 41,970	9	33,780	7
Tin .....	" 5,000	3	5,853	4
Zinc .....	" 40,231	16	135,173	45
Babbitt metal and solders .....	" 31,131	14	47,116	24
Other non-ferrous metals .....	... ..	10	...	20
Paints, oils and varnishes .....	... ..	708	...	801
Lumber .....	M bd. ft. 14,727	2,071	14,088	1,782
Frit, for enamelling .....	lb. 473,480	96	1,100,650	220
All other materials and components used <sup>1</sup> .....	... ..	32,729	...	36,885
2. Containers and other packaging materials and supplies used .....	... ..	632	...	684
3. Operating, maintenance and repair supplies used (excluding fuel) .....	... ..	1,958	...	1,980
4. Amount paid out to others for work done on materials owned by establishments.....	... ..	2,551	...	3,411
Totals .....	... ..	99,160	...	107,367

<sup>1</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$11,563,877 in 1964 and \$13,013,397 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	Value	
	1964	1965
	\$'000	
1. Products:		
Architectural metal work:		
Aluminum .....	7,838	7,002
Brass and bronze .....	491	581
Iron and steel .....	40,091	42,385
Stainless steel .....	1,287	2,953
Awnings:		
Aluminum .....	1,177	1,042
Steel .....	1	1
Other .....	134	119
Doors, metal:		
Commercial and industrial:		
Aluminum .....	5,338	9,030
Steel .....	4,687	6,329
Other .....	2,295	2,219
Residential, including garage:		
Aluminum .....	2,251	2,730
Steel .....	1	2,260
Other .....	1	1
Metals combination screen and storm doors:		
Aluminum .....	8,698	6,639
Steel .....	269	465
Door frames, metal .....	3,067	2,792
Flooring, open steel .....	2,010	2,720
Lockers and shelving .....	956	589
Metal lath and corner bead .....	1	1
Partitions:		
Aluminum .....	157	206
Steel .....	4,257	4,456
Windows, excluding combination screen and storm:		
Aluminum .....	24,014	27,102
Steel .....	2,975	3,498
Windows, other (combination screen and storm):		
Aluminum .....	18,424	15,545
Steel .....	1	239
Window units, hermetically sealed .....	2,357	2,702
Panels, parts or sections for prefabricated buildings not sold as complete units.....	1	1
Prefabricated and portable metal buildings, complete units (in sections or panels), (utility buildings, dwellings, garages, etc.) .....	12,393	14,727
Prefabricated exterior metal panels (curtain wall, sandwich panels and single faced panels) .....	3,821	3,200
Rolled formed sections .....	3,347	4,144
Window screens, with metal frames .....	720	856
Structural and architectural metal products, other .....	24,572	22,352
All other products .....	21,203	23,138
2. Amount received in payment for work done on materials and products owned by others .....	421	590
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	(962)	(754)
Net adjustment for establishments receiving progress payments .....	-	-
<b>Total adjusted value of shipments and work done .....</b>	<b>198,288</b>	<b>211,916</b>

<sup>1</sup> Included with "Structural and architectural metal products, other".

**TABLE 14. Shipments of Selected Goods of Own Manufacture— All Industries, 1964 and 1965**  
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

**A. Metal Windows, 1960 - 65**

Residential, factory and commercial use

Year	Aluminum	Steel	Combination screen and storm		Hermetically sealed
			Aluminum	Steel	
\$'000					
1960.....	11,453	5,650	15,847	1	5,851
1961.....	17,663	4,378	15,147	1	9,394
1962.....	17,905	4,519	13,360	1	12,506
1963.....	19,785	3,802	17,631	1	14,108
1964.....	24,852	3,159	18,907	1	16,629
1965.....	28,573	4,121	15,873	1	15,980

**B. Prefabricated and Portable Metal Buildings and Prefabricated Panels, 1960 - 65**

Year	Prefabricated and portable metal buildings, complete units (in sections or panels)	Prefabricated exterior metal panels (curtain wall, sandwich panels and single faced panels) <sup>2</sup>
\$'000		
1960.....	7,355	6,411
1961.....	6,559	5,992
1962.....	12,200	7,812
1963.....	19,236	8,554
1964.....	18,095	9,771
1965.....	21,250	9,399

**C. Metal Doors, 1960 - 65**

Year	Commercial and industrial including overhead		Residential including garage		Combination screen and storm	
	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel
\$'000						
1960.....	2,248	5,431	1,208	2,610	8,050	287
1961.....	4,330	3,946	822	1,733	8,984	361
1962.....	7,089	4,556	888	1,627	7,407	576
1963.....	7,528	5,267	3,078	2,011	8,296	557
1964.....	6,707	6,026	2,271	1,040	8,773	307
1965.....	11,823	8,836	2,814	2,695	7,440	538

**D. Lockers, Shelving and Partitions, 1960 - 65**

Year	Lockers and shelving	Partitions	
	Aluminum and steel	Aluminum and steel	Wood
\$'000			
1960.....	9,445	6,276	..
1961.....	9,549	6,574	..
1962.....	12,298	7,646	..
1963.....	13,277	7,573	..
1964.....	13,316	7,303	1,595
1965.....	14,857	6,989	858

<sup>1</sup> Included in "Steel", column 2.

<sup>2</sup> Includes panels, parts or sections for prefabricated buildings not sold as complete units.

List of Establishments classified to this Industry, 1965

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location
<b>Newfoundland:</b>	
Coady's General and Ornamental Iron Works .....	2 George St., St. John's
Eastern Aluminum Products Ltd. ....	603 Topsail Rd., St. John's
Neal, Robert Ltd. ....	Topsail, Conception Bay
Westcott's Ltd. ....	Elizabeth & Portugal Cove Rd., St. John's
<b>Nova Scotia:</b>	
Atlantic Metal Works .....	Enfield
Brine Aluminum Co. Ltd. ....	Main St., Trenton
Central Mfg. & Repair .....	R.R. 4, Grand Lake Rd., Cape Breton
Continental Iron Products Ltd. ....	382 Windmill Rd., Dartmouth
D.H.I. Maritimes Limited .....	Woodside Industrial Park, Dartmouth
Glasgow Metals Ltd. ....	John St., New Glasgow
Halifax Metal Workers Ltd. ....	2859 Isleville St., Halifax
Ideal Aluminum Products Ltd. ....	2500 Agricola St., Halifax
Kingston Aluminum Products .....	68 Victoria, Middleton
Macleod, A.G. ....	150 Queen St., North Sydney
Roper Aluminum Products Ltd. ....	484 Windmill Rd., Dartmouth
Stott Aluminum Corp. Ltd. ....	Welton St., Sydney
Viscount Metal Products Ltd. ....	13 Poplar Grove, Halifax
Zenith Iron Works Limited .....	20 Wright Ave., Dartmouth
<b>New Brunswick:</b>	
Arrow Metal Products Ltd. ....	43 Richmond St., Moncton
Levesque Metal Works Ltd. ....	Saint-Jacques
Sonier Ironcraft .....	55 Jean St., East Saint John
<b>Quebec:</b>	
A.A.L. Metal Inc. ....	679, boul. Lajeunesse, St-Jérôme
Acier Warren Steel Inc. ....	150, boul. Central sud, Ville Lussier
Aero Aluminum Inc. ....	1785, boul. Fortin, Chomedey
Alain, A. & Cie .....	197 St-André St., Québec
A La Vieille Forge Enr. ....	1200, cté Nationale St-Césaire
Albert, René .....	11, rue France, Villeneuve
Alfa Ornamental Metal Inc. ....	11633 Letellier St., Montréal
Alsco (Montreal) Incorporated .....	401 Courtemanche St., Montréal
Alumcraft Corp. ....	4405 Côte-de-Liesse Rd., Montréal
Aluminum Building Products (Montreal) Ltd. ....	5527 de Castille, Montreal-nord
André & Bruno Metal Works Inc. ....	2030 Timens, St-Laurent
Apex Win-Dor Limited .....	6045 Côte-de-Liesse Rd., St-Laurent
Arvaisis, Marcel Inc. ....	715 St-Joseph Blvd., Hull
Aston Steel & Glass Builders Products Inc. ....	Charlemagne Cté, L'Assomption
Atelier Boivin & Fils Enr. ....	309, rue Tessier, Chicoutimi
Atelier Isabelle Enr. ....	590 Melançon St., Drummondville
Atelier Raoul Desbiens Inc. ....	26, rue Rhinos, Chicoutimi
Atelier Rosario Tremblay .....	540, rue St. Joseph, Alma
Au Fer Battu Enr. ....	5390 A Jarry, St-Léonard
Au Dragon Forgé .....	269 A boul. Ste-Rose, Ste-Rose
Au Fer Forgé .....	R.R. 1, St-Césaire
B.K. Ornamental Iron Work Reg'd. ....	685 Mercille Ave., St-Lambert
Beaudoin, Julien Ltée .....	Daveyleville
Beaver Iron Works Co. ....	1412 York Lane, Montréal
Beclawat (Canada) Limited .....	335 Laurentien Blvd. St-Laurent
Bédart, J.B. ....	187 de l'Espinay St., Québec
Béland, A.C. ....	14 Potras, Victoriaville
Bell Aluminum Industries Ltd. ....	2175 Remembrance Rd., Lachine
Bernard Industries Enr. ....	10414 Balzac St., Montréal
Besmetal Industries Inc. ....	6, rue St-Félix, Cap-Rouge
Bilodeau, Yvon .....	Stratford Centre
Blanchette, H. Ltée .....	1665 Laviolette St., Trois-Rivières
Bolar Foot Grill Ltd. ....	4362 Forest St., Montreal N.
Bolduc, Gaston .....	1090 Bazin, Ville Les Saules
Bolduc, H. ....	339-15th St., Québec
Bonhomme, Ernest & Fils .....	85, chemin Laroque, Valleyfield
Boudreau & Fils Enr. ....	657 St-Rock St., Trois-Rivières
Boulanger, Laurentin Fer Ornamental .....	421, boul. St-Pierre, Luceville
Bourhonais, Omer, & Fils Ltée .....	191 Ouest North, Gatineau
Breic, Mario .....	20-8th Ave. N., Sherbrooke
Brochu, J.R. ....	4670-18th Ave., Rosemont
Brome Iron Works .....	R.R. 1, West Brome
Bumeda Steel Products Ltd. ....	5075 Fullum St., Montréal
Camire, Donald Enr. ....	6135 Agathe, Ville Brossard
Cardinal, Joseph .....	11, rue Pacifique, Ste-Anne-de-Bellevue
Caron Ornamental Enr. ....	9802 Hochelaga St., Montréal
Champagne, Robert .....	46 Albert St., Sorel
Champlain Ornamental .....	24ième Rue Cap-de-La-Madeleine, Ste-Marthe
Charland Iron Works Co. Ltd. ....	2730 Charland St., Montréal
Charron, D. & P. Enr. ....	80 Lonergan, Ste-Therese
Châteauguay Fer Ornamental Enr. ....	123, rue Notre-Dame, Châteauguay
Chouinard, C. & Fils .....	412 St. Laurent, Cap-de-la-Madeleine
Chishelm Aluminum Ltd. ....	15-6th Ave., Ville St-Pierre
Classic Ornamental Works Inc. ....	6520 Magloire, St-Léonard-de-Port-Richel

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Quebec - Continued:	
Clerk Windows Ltd.	146 Bates Rd., Montréal
Cliche, Conrad Inc.	Rue Cantin, Victoriaville
Coupe-Froid St-Georges Enr.	549-1st Ave., Ville St-Georges-Est
Couture & Bergeron Ltée	Bld. Talbot Chicoutimi
Couture, Maurice	5580 Frontenac, Douville, St. Hyacinthe
Dario, Limitée	8826 Crescent No. 5 Ville d'Anjou
De Senneville, A. Enr.	152 Wilfrid Hamel Blvd., Québec
Desjardins Welding Inc.	31 d'Anjou, Châteauguay
Desrosiers, Marcel	370 Blain St., St-Hilaire
Dominion Steel Works Ltd.	8020-14th Ave., St-Michel
Dominion Tank and Mech. Works	8871, boul. Omer, Gaucher, Rivière-des-Prairies
Dorval Ornamental Iron Co. Reg'd.	580 O'Connell Ave., Dorval
Dosco Industries Ltd. (Truscon Steel Works)	6001 Irvin St., Ville LaSalle
Dozois St-Jean Limitée	2089 Sanquinet St., Montréal
Dubeau & LaPointe Ltée	Bld. Lemire, Drummondville
Dubois & Frères Enr.	825, ruelle Lockwell, Québec
Dumas, Robert	115, boul. Terrebonne, Terrebonne
Duquette & Gantépy Enr.	390 St-Eustache, St-Eustache
E.T. Screen Glass Inc.	333-9th Ave. S., Sherbrooke
English, Charles Ltd.	4600 Hotel de Ville, Montréal
Entreprises Canapes Ltée	8027-20ième Ave., Ville St-Michel
Etwell & MacDonald Ornamental Iron Reg'd.	1347 Sources Rd., Dorval
Excelum Aluminum Products Co. Ltd.	1860 Fortin Laval, (Chomedey)
F.T.S. Enr.	2187 Charlevoix St., Giffard
Faustin, A. Co. Limited	3325 Notre-Dame St. E., Montréal
Fenêtres & Vitraux C. & M. Ltée	2995 Sartelon St., Ville St-Laurent
Fer Forgé Dorion Enr.	71 Besner, Dorion
Fer Forgé Moderne Enr.	115 St-Paul St., Drummondville
Fer Ornamental Laurentien Enr.	94-114 Ave., Lafontaine
Fer Ornamental St-Félicien Enr.	9, boul. Levesque, St-Félicien
Fer Ornamental St-Pierre Enr.	1022, rue St-Pierre, Drummondville
Filter, Lite Aluminum Products Limited.	512, boul. Sauvé, St-Eustache
Fleuro Industries (1963) Ltd.	430 St-Pierre, Montréal
Forge Artistique Erca	313, boul. St-Luce, Cte de St-Jean
Forge Laurentienne Ltée	St-Félix-de-Valois
Forge Marcel Roy Enr.	401 Forest St., St. Paul de Joliette
Fortier Fer Ornamental Enr.	Ste-Clothilde de Horton
Foschl & Liberatore	9981 Plaza Blvd., Montréal N.
Gagné & Fils	780, boul. Centenaire Jonquière
Gaston-Bégin	St. Louis de Pintendre
Gauthier, W. & Fils Fer Ornamental	Côtes des Anges, Ste-Scholastique
Godin, J.P. & Fils	920 Montcalm St., Sorel
H.A.Z. Aluminum Window Enr.	2540 Lyall St., Montréal
H & B Products Mfg. Co. Ltd.	15701 Sherbrooke St. E., Montréal
Hébert Fer Ornamental	1142 Hickson St., Verdun
Hébert, Louis & Fils Ltée	50 Mondor St., St-Hyacinthe
Industrial Iron Works	52 Delormier St., Hull
J.D. Steel Works Co. Ltd.	3811 Dickens St., St-Michel
J.M. Aluminum Enr.	298, boul. de la Concorde, Laval-des-Rapides
Jacques Cartier Iron Works Ltd.	2332, rue Marmier Ville Jacques-Cartier
Jolimi Anglo Inc.	395-10th Ave. St., Sherbrooke
Joyal, Jean-Yves Fer Ornamental	St-Majorique
L.H. Metal Inc.	19 Daniel, Charlemagne
Laba-Door Ltd.	6003 Côte-de-Liesse Rawdon
Lachine Forge Ltd.	629 George V St., Lachine
La Cie D'Exploitation d'Aluminum Ltée	12040 Lachapelle St., Montréal
Lacroix, Henri-Louis	31 Lavolette Lac Mégantic
Lafond, Ephrem	133 Cartier, St-Denis-sur-Richelieu
Lafond & Bergeron Cie Ltée	2454 Des Carrières St., Montréal
La Forge Artistique Enr.	99 St-Romuald, Farnham
La Forge d'Art	1665 Démonigny St. E., Montréal
La Forge du Nord Enr.	128 Grande Côte St., St-Eustache
La Forge Longueuil Enr.	50, rue St. Elizabeth, Longueuil
La Forge Moderne Enr.	63 St. Valere, Cap-de-la-Madeleine
La Forge Parrot	258 St-Denis St., St. Lambert
Langlois, L. Fer Ornamental	18 Pont Masson Nitro, Valleyfield
Lapinière Structural Steel Inc.	5405, rue Ireland, St-Hubert
Larouche, Georges	7, rue des Forges, Amqui
Larouche, Wellie	40 Léonidas St., Rimouski
Larue, Gérard	53 St-Paul St., Sorel
LaSalle Welding Inc.	2000 Falardeau St., Montréal
Laurentide Metal Inc.	1680 Dorchester St. N., Québec
Launière Fer Ornamental Enr.	301 Champlain, St-Jean
La Vieille Forge Enr.	1085 Larivière, Rouyn
La Vieille Forge Enr.	389 Cartier St., Chicoutimi
Leclerc & Leclerc Enr.	2423 St. Georges, Giffard
Les Arts du Cuivre Enrg.	2124 Bourbonnière, Montréal
Les Ateliers Tremblay & Fils Enr.	800, rue Bagot, Bagotville
Les Entreprises J. Perrault Inc.	8756-8th Ave., St-Michel
Les Frères Lebrun Ltée	3065 Royal Blvd., Trois-Rivières
Les Feroniers Hauterive Inc.	Centre Industrielle, Hauterive
Les Industries Super-Métal Inc.	655 Bertrand Blvd., Québec W.
Les Produits Desco Ltée	486, rue St-Jacques, St-Jean
L'Islet Ornamental Enr.	Rue Hébert, L'Isletville
Leeweld & Forge Products (1961) Ltd.	1545 Cabot St., Montréal
Lord & Fils Cie Limitée	2700 Delormier St., Jacques-Cartier
M.C. Architectural Iron Works	2127 Oxford, Montréal
M. & M. Manufacturing Inc.	3618 Louis Veillot St., Montréal
M. & S. Metal Works Reg'd.	1270 Bourdages, St-Hyacinthe
Milieux, Gédéon	18 Ave-du-Palais, St-Joseph-de-Beauce
Miron Iron Works Limited	4881 St. Lawrence Blvd., Montréal

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Quebec - Continued:	
Marchand, Adélard Ltée	1124 St-Valier St. E., Québec
Marcotte Steel Works Enr.	R.R. 5, Magog
Martineau, Paul-Eugène	716 Trans Canada, St-David
Max Ornamental Iron Works Ltd.	10120 Place Hôtel-de-Ville, Montréal N.
Mayo Aluminum Limited	96 St. Denis, Gatineau
Messely & Fils Inc.	495-2nd Ave., Québec
Metalloy Inc.	10770 Jean Meunier, Montréal
Metro Steel & Iron Works Reg'd.	8175 Durocher St., Montréal
Metropole Ornamental Iron Works Ltd.	4850 Forest St., Montréal N.
Miami Ornamental Enr.	2300 Côte Noire, Ville Brossard
Millbern Window Ltd.	5835 Place Turcot, Montréal
Modern Iron Works Ltd.	9655 St-Urbain St., Montréal
Molina Fer Ornamental Ltée	8170, rue Lafrenais, St-Léonard-de-Port-Maurice
Monaco Steel Plate Work Eng.	3719-40ème Ave., Pte-Aux-Trembles
Monière & Frères	8511 Châteaubriand St., Montréal
Montcalm & Langlois Enr.	4e rang, Drummondville
Montour P.E.	Baie Jolie, Trois-Rivières
Montreal Forged Products	6900 Papineau St., Montréal
Montreal Iron Works Corp.	4405 Côte-Liesse Rd., Montréal
Montreal Ornamental Metal Work	10645 Lamoureux St., Montréal N.
National Iron Works Ltd.	10014, boul. St-Ual, Montréal-N.
National Ornamental Iron Works	2327 Déjormier St., Montréal
Noel Ornamental Enr.	29, rue Provost, St-Rémi de Napierville
O & S Bronze & Metal Fabricators Ltd.	2571 Notre-Dame St. E., Montréal
Olympic Aluminum Mfg. Ltd.	129 Van Horne St., Montréal
Ornamental Metal & Machine Works Ltd.	4405 Côte-de-Liesse Rd., Montréal
Par Metal Inc.	380 Joly St., Québec
Paré R. Ornamental Iron Products	7355 Lévesque St., Ville d'Anjou
Pelchat, J.G.	Centre Industriel, St-Romuald
Pelchat, André	606 Cowie St., Granby
Perrault, Paul-Emile	1378 De La Terrière St., Trois-Rivières
Picard, W & Fils Enr.	Ste-Louise
Pitre & Fils	549 Ste-Marguerite Boucherville
Pointe-Claire Ornamental Iron Works	22 B St-Joachim St., Pointe-Claire
L. Poirier Fer Ornamental	8572-10th Ave., St-Michel
Poulin, J.A. & Fils	950 Panneton St., Sherbrooke
Poulin J.B. Inc.	150-5th St., Québec
Poulin & Rodrigue Inc.	Route Kemedec, Beauceville
Prescott Iron Works Ltd.	10050 Plaza St., Montréal-Nord
Prevost, A. & D. Ltd.	305-12th Ave., Richelieu
Prime Industries Ltd.	6005 N. Côte-de-Liesse Rd., Montréal
Prompt Ornamental Metal Works	2075 Theodore St., Montréal
R. Bros. & O. Iron Works Ltd.	660-90th Ave., Ville LaSalle
R.M.P. Quebec Limited	102 Elmslie St., LaSalle
Racine, Léon, Enr.	261 Christophe Colomb St. E., Québec
Raymond Manufacturing Co. Ltd.	475 Metropolitain Blvd., Lachine
Reno Metal Specialities Ltd.	8577-10th Ave., St-Michel
Rivard, Fabien	2050 Cartier St., St-Hyacinthe
Robitaille, Jacques	6061, boul. du Jardin, Orsainville
Rodrigue, A.	1249 Soivoie, Plessisville
Rodrigue & Frère Ornamental Ltée	36 Dorchester St. S., Québec
Roy Fernando, Fer Ornamental	170 Montée du Moulin, Laval-des-Rapides
S. & P. Ornamental Iron Work	6525 Lafayette Blvd., Duvernay
Saguenay Decoration	63 Elgin, Bagotville
Serafini Ornamental Works Reg'd.	214 Bourget St., Montréal
Sergeie Fer Ornamental	St-Louis, Ste-Ursule
Shalwin Co. Ltée	550-104th St., Shawinigan
Silverman Iron Work	4324-Colonial Ave., Montréal 18
South Ornamental & Iron Work	5840 Kimber Blvd., St-Hubert
St. Denis Ornamental	3460 Industrial St., Montréal
St-Eustache Ornamental Iron Works	90, rue Labrie, St-Eustache
St-Germain & Perrault Fer Ornamental	5365 Henri Julien St., Montréal
St. Georges Metal Inc. & St. Georges Metal Works Inc.	C.P. 203 St-Georges E.
St. Hilaire-Fernando	1234 Vincent Massey St., Québec
St-Michel Ornamental Inc.	9960 Paris St., Montréal
St-Michel Overhead Door Enr.	8031-13ième Ave., St-Michel
Standard Iron Works Ltd.	442 Beaumont Ave., Montréal
Therrien & Frères Inc.	343-10th Ave. S., Sherbrooke
Thibault L.S. Philippe	21, rue Racine, Baie-St-Paul
Tracy Metal Enr.	1911 St. Jacques St., Tracy
Tremblay, Adéodat	365, rue Puyjalon, Hauteville
Tremblay, Jacques Fer Ornamental	Ironsides, Hull
Tri-Steel Fabricators Ltd.	12 Des Seigneurs St., Montréal
Trotter Metal Inc.	Ste-Anne-de-la-Pérade
Tru-Seal Mfg. Inc.	7970-56th Ave., Montréal
Ungava Steel Ind. Ltd.	11383-6th St., Rivière des Prairies
Unicel Inc.	4146 Majeau St., Montréal
United Metal Works Reg'd.	431 St-Joseph St., Lachine
Valley Forge Iron Work Co. Ltd.	9950 London St., Montréal
Valley Steel & Architectural Iron Work Co.	339 boul. du Havre, Valleyfield
Vendome Metal Works	4310 Hogan St., Montréal
V.D. General Metal Works Ltd.	9484 Hamelin St., Montréal
Verdun Ornamental Iron Works Ltd.	1146 Hickson St., Verdun
Victor General Contractors	2137 Bleury St., Montréal
Victoria Ornamental Metal Works	8975 Park Ave., Montréal
Ville Emard Ornamental Iron Works Reg'd.	6363 Jogues St., Montréal
Ville LaSalle Welding Enr.	7708 George St., LaSalle
Viterie Rivière du Loup Ltée	86 Boul. Cartier Rivière du Loup
Warner Weathermaster Limited	160 boul. Labelle, Ste-Rose

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
<b>Quebec - Concluded:</b>	
Waverly Ornamental Works Limited .....	7010 Marconi Ave., Montréal
Westeel Rosco Limited .....	4107 Richelieu St., Montréal
Windoors, Inc. ....	10625 Georges Pichet St., Montréal N.
Wilson, J.T. & Co. Limited .....	4755 Industrial Blvd., Montréal 39
Zoltan Tron Works .....	227 A-81st Ave., Chomedey
<b>Ontario:</b>	
A.A.A. Ornamental Iron & Aluminum Co. ....	65 Wolseley St., Toronto
Ace Ornamental Iron & Metal Products .....	475 Queen St. E., Toronto
Adams, S.D. Welded Products Ltd. ....	Sackville Rd., Sault Ste Marie
Adanac Ornamental Iron Works Ltd. ....	836 Upper James St., Hamilton
Adrian's Wood Works & Aluminum .....	3979 Tecumseh Rd. E., Windsor
Advance Railing Co. ....	74 Niagara St., Toronto
Aerloc Aluminum Products Ltd. ....	8 Hwy. W., Dundas
Air Master of Canada Ltd. ....	49 Metcalf St., St. Thomas
Air Shade Aluminum Products Ltd. ....	R.R. 1, Napanee
Albern Aluminum Mfg. Co. ....	1300 Ellsmere Rd., Scarborough
Alcan Building Products Limited .....	772 Warden Ave., Scarborough
Alcon Aluminum Window & Door Co. ....	R.R. 2, Mono Rd., Township Albion
Allscreen Products Limited .....	49 B Arrow Rd., Weston
Al-mould Mfg. Co. Ltd. ....	Kennedy Rd., Unionville
Altex Products (Div. John Abrahams Roofing) .....	1096 Ontario St., Beamsville
Alumacraft Mfg. Co. ....	3346 Dundas St. W., Toronto
Alumicolor Limited .....	2424 Finch Ave. W., Weston
Aluminum Window Manufacturing Co. ....	34 Penn Dr., Weston
Architectural Aluminum Co. Ltd. ....	1015 York Blvd., Burlington
Arco Iron & Fence Co. Ltd. ....	455 Barton St. E., Stoney Creek
Art Fixtures & Metal Co. Ltd. ....	197-30th St., Toronto
Art Wire & Iron Co. Limited .....	3 Carlaw Ave., Toronto
Artistic Railings .....	99 Milvan Dr., Weston
Ayr Welding (Ralph Wigboldus) .....	Ayr
Balvert Bros. ....	R.R. 3, Harrow
Bell, P. Graham Associates Limited .....	Armstrong & Sinclair Ave., Georgetown
Benzin Ornamental Iron Works Ltd. ....	R.R. 2, Petersburg
Berry, Stanley Ltd. ....	483 Industrial St., Wingham
Bestway Aluminum Windows & Doors .....	481 Kennedy Rd., Scarborough
Borden Metal Products (Canada) Ltd. ....	Day Foot St., Beeton
Border Cities Wire & Iron Ltd. ....	961 Walker Rd., Windsor
Both, A. Ltd. ....	7 A. Kelfield St., Rexdale
Bradshaw Iron Works .....	St. Catharines
Braun, A.J. Mfg. Ltd. ....	285-289 Victoria St. N., Kitchener
Brockhouse, J. & Co. (Canada) Ltd. ....	542 Evans Ave., Toronto
Butler Mfg. Co. (Canada) Ltd. ....	3455 Queen Elizabeth Way, Burlington
C.B. Wrought Iron Mfg. Ltd. ....	154 Bentworth Ave., Toronto
C.S. Construction Specialties Ltd. ....	895 Thermal Rd., Port Credit
Cameron Windows (Aluminum) Limited .....	142 Kennedy Rd. S., Brampton
Canadian Critical Metal Window Limited .....	685 Warden Ave., Scarborough
Canadian Mel-Craft Industries Ltd. ....	366 King St. N., Waterloo
Canadian Panels Ltd. ....	25 Newbridge Rd., Toronto
Canadian Pittsburg Industries Ltd. (Metal Fabrication Div.) .....	48 St. Clair Ave. W., London
Carleton Iron Works Ltd. ....	91 Young St., Ottawa
Central Steel Fabricators Ltd. ....	5 Gertrude St., Hamilton
Central Steel Works (Peterborough) Ltd. ....	241 Lansdowne St. E., Peterborough
Central Welding Works .....	1267 Fisher St., North Bay
Chatham Venetian Blind .....	650 Grand Ave. E., Chatham
China Electro Plating & Ornamental Iron Works .....	68 Railroad Ave., Sault Ste. Marie
Clark's Custom Metal Mfg. ....	247 Berwick St., Caledonia
Cleland Metal Products Ltd. ....	464 Welland Ave., St. Catharines
Clines Ornamental Iron Works .....	Victoria Ave., Stevensville
Columbus Ornamental Iron Ltd. ....	245 Bering Ave., Toronto
Commercial Alum. Products Ltd. ....	134 Oakdale Rd., Downsview
Compo-Miracle Products (Canada) Ltd. ....	Hwy 2, Tilbury
Continental Railing Co. ....	1166 Dundas St. W., Toronto
Cronier, Jack Iron Works .....	53 Young St., Ottawa
Cunningham & Lea Limited .....	681 Warden Ave., Scarborough
Custom Fabricators Co. ....	Shaver Rd., Coonsville
Custom Ornamental Iron & Fence Co. Ltd. ....	357 South St., Windsor
D.H.I. Limited .....	6 Holtby Ave., Brampton
Davis Har Industries .....	2741 Lloyd George, Windsor
Daycan Limited .....	20 Brydon Dr., Rexdale
Dayside Industries Ltd. ....	2258 Mountainside Dr., Burlington
DeLaine A & V .....	271 Downie St., Stratford
Delux Aluminum Products Ltd. ....	R.R. 1, Agincourt
Dezen Aluminum Ltd. ....	31 Windsor St., Toronto
Diamond Window & Door Mfg. Co. Ltd. ....	192 Geary Ave., Toronto
Di Cosimo Iron Works .....	746 Montrose Rd., Niagara Falls
Direct Aluminum Products Ltd. ....	2267 Industrial St., Burlington
Direct Supply Mfg. (Port Arthur) Ltd. ....	561 - 10th Ave., Port Arthur
Dominion Aluminum Fabricating Ltd. ....	36 Coronet Rd., Toronto
Donald Iron Works .....	29 Lewis St., Fort Erie
Donn Products (Canada) Ltd. ....	140 Rebecca St., Oakville
Dorvuc Aluminum Industries Ltd. ....	124 Cartwright Ave., Toronto
Dor-win Aluminum Products .....	2688 Howard Ave., Windsor
Downsview Iron Work Ltd. ....	130 Oakdale Rd., Downsview
Dual Temp Products Limited .....	604 Dundas St., Woodstock
Dumont Aluminum Limited, The .....	709 Main St. W., Hamilton

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
<b>Ontario - Continued:</b>	
Dunco Limited	c/o H. Jordan Trustee, 25 Adelaide St. W., Toronto
Dundas Iron & Steel Limited	73 Millwick Dr., Weston
Duo Temp (Niagara) Ltd.	105 Merrit St., St. Catharines
Durable Aluminum Greenhouse Co.	917 Upper James St., Hamilton
Dynagas Industries Ltd.	1160 Albert Rd., Windsor
Eastview Iron Works	72 Ste-Cécile St., Eastview
Eberhard & Shives Ltd.	625 Maitland St., London
Edmor Manufacturing Ltd.	10 Gail Grove Ave., Weston
Emery Glass & Aluminum Ltd.	2400 Finch Ave. W., Weston
Etobicoke Ironworks Ltd.	157 Rivalda Rd., Weston
Everlast Storm Co.	7 Kelfield St., Rexdale
Everseal Storms Ltd.	4376 Sheppard Ave. E., Agincourt
Fashion Grilles Limited	70 Colville Rd., Toronto
Ferro Structural Steel (Toronto) Ltd.	Armstrong Ave., Georgetown
Fiorino, Tony	1306 Crawford St., Windsor
Fisher & Ludlow (Canada) Ltd.	737 Church St., Toronto
Flangeklamp of Canada Ltd.	72 Vine St., St. Catharines
Fleetway Aluminum Mfg. Co. Ltd.	1557 St. Laurent Blvd., Ottawa
Fleming, S.W. & Co. Ltd.	49 Howden Rd., Scarborough
Four Seasons Aluminum Products Ltd.	62 Colville Ave., Toronto
Frank, G.R. Metal Works	554 Montrose Rd., Niagara Falls
Freeman & Son	893 Yonge St., Toronto
Gartner Steel Products Mfg.	1367 Industrial Rd., Preston
Gem Aluminum Mfg. Co. Ltd.	1170 Dundas St. W., Toronto
General Metalcraft (Belmont)	Main St., Belmont
Glencoe Steel Fabricators	Symes St., Glencoe
Golden Triangle Ltd. Windows	276 Maple Ave., Kitchener
Gordon Enterprises	53 Minnie St., Wallaceburg
Grand Valley Ornamental	Prince Charles Rd., Cainsville
Guard-All Aluminum Products Ltd.	34 Belvia Rd., Toronto
Gunsch, Otto	1054 Margaret St., London
H. & B. Enterprise (Canada) Limited	110 Crockford Blvd., Scarborough
H. & K. Steel Fabricating Ltd.	2380 Haines Rd., Cooksville
Hamilton Guild of Metal Crafts Ltd., The	110 Queen St. N., Hamilton
Hamilton Ornamental Iron Works Ltd.	99 Clinton St., Hamilton
Harrison Metal Works Ltd.	Vinden St., Midland
Hauserman Limited	25 Mallard Rd., Don Mills
Higgin Homeshield Limited	75 Bramalea Rd., Bramalea
Hildebrandt Iron Works	107½ Welland Ave., St. Catharines
Hodgsons Steel & Iron Works	R.R. 1, Kalar Rd., Niagara Falls
Holtrop's Steel & Iron Works	P.O. Box 136, Mount Hope
Ideal Aluminum Products	30 Eugene St., Toronto
Ideal Ornamental Metal Craft	45 Southport, Toronto
Jalwin Sales Limited	2461 Dixie Rd., Cooksville
Jensen Welding & Steel Supply Ltd.	66 Russett Ave., Oshawa
Jet Metal Products Limited	38 Milvan Dr., Weston
K.W. Ornamental Iron Works	25 Weber St. N., Waterloo
Kah, Philip	192 Lansdowne Ave., Kingsville
Kawneer Co., Canada Limited	1051 Ellismere Rd., Scarborough
Kendall Bronze & Ironworks Limited	2480 Dufferin St., Toronto
Kinnear Manufacturing Co. of Canada Ltd.	360 Montrose St. N., Preston
Kitchener Forging Co.	612 Victoria St. N., Kitchener
Kromek Steel	230 Bloor Lane Sudbury
Lanark Sheet Metal Works Ltd.	17 Tangiers Rd., Downsview
Lau, Ed. Iron Works Ltd.	115 Whitney, Kitchener
Leaside Iron & Ornamental Co. Ltd.	71 Howden Rd., Scarborough
Leesan & Baxter	75-32nd St., Toronto
Lukmor Ornamental Iron Works	4097 Sheppard E., Scarborough
MacFadyens Real Seal Industries	2822 Danforth Ave., Toronto
Macotta Co. of Canada Limited	1190 Kipling Ave. N., Rexdale
Maier Iron Works	47 Maple Ave., Thornhill
Manis Metal Mfg. Ltd.	1120 Dubeau St., Ottawa
Maple Leaf Iron Works	7 Maple Ave., Thornhill
Metalsmiths Co. Ltd.	110 Laird Dr., Toronto
Metro Metal Craft	282 Raleigh Ave., Scarborough
Model Railings Co. Ltd.	118 Manville Rd., Scarborough
Modern Ornamental Iron Works	16 Macallum St., Hamilton
Modern Railings & Metal Craft Ltd.	58 Hymus Rd., Scarborough
Modern Steel & Iron Works (Niagara) Ltd.	2750 Montrose Rd., Niagara Falls
Nash Aluminum Ltd.	95 Athol St. E., Oshawa
Nepean Metal Works	R.R. # 1, Bells Corners
Newtonbrook Iron Works	Corner # 7 Hwy. & Leslie St., R.R. # 2, Gormley
Norris Iron Works Ltd., The	818 Eastern Ave., Toronto
Northern Ornamental Iron Works	388 Pine St. S., Timmins
Northwestern Sheet Metal Works Co. Ltd.	400A Hopewell Ave., Toronto
Ontario Railings Co.	7 Magnificent Rd., Toronto
Ornamental Iron	R.R. # 1, Cataraqui
Oshawa T.V. Supply Limited	Taunton Rd. E., Oshawa
Ottawa Iron Works Ltd.	256 McArthur Rd., Eastview
Peel Steel Ltd.	88 St. Joseph St., Brampton
Pengelly Iron Works Limited, The	47 Rivalda Rd., Weston
Peninsula Iron Works (Div. of Norm Crawford Enterprises Ltd.)	1654 Glenholme Ave., Niagara Falls
Penn Metal Products Co. Ltd.	67 Penn Dr., Weston
Pickering Ornamental Iron Co.	Station Rd., Pickering
Praesto Aluminum Products Ltd.	# 53 Hwy. W., Brantford
Precision Seal Mfg. Ltd.	288 Bridgeland Ave., Toronto
Presland Iron & Steel Ltd.	Russell at Bagot Sts., Kingston
Prince Metal Works	222 Mavity St., Toronto
Queensway Iron Works	1880 Britannia Rd. E., Malton

List of Establishment classified to this Industry, 1963 - Continued

Name	Location
<b>Ontario - Concluded:</b>	
R.M.P. Industries Ltd.	1180 Caledonia Rd., Toronto
Ralph's Ornamental Iron Works Ltd.	2 Dunbar Ave., Hamilton
Ray Twist Ornamental Ironcraft	230 Vancouver St., London
Ray Welding Co. Ltd.	15 Fisher St., Toronto
Rebmec Ind. Ltd.	234 Birmingham St., Toronto
Redi Steel Products Ltd.	2107 Midland St., Hamilton
Regina Ornamental Iron Works	17 Toro Rd., Downsview
Rexdale Iron Works	41 Shaft Rd., Rexdale
Reycan Aluminum Building Products Ltd.	3605 Weston Rd., Weston
Richards-Wilcox Co., (Div. of General Products Mfg. Corp. Ltd.)	2 Terrace St., London
Riverside Fabricating & Welders	736 Matthew Brady, Riverside, Windsor
Rocca Ornamental Iron Ltd.	950 Middlegate Rd., Cooksville
Rocket Sheet Metal Co. Ltd.	983 Rangeview Rd., Port Credit
Rolled Metal Products Ltd.	33 Jenet Ave., Toronto
Roman Railings Co. Ltd.	147 Oakdale Rd., Downsview
Romat Ornamental Iron Ltd.	111 Toryork Dr., Weston
Romsteel Limited	909 Dixon Rd., Malton
Rowe Bros. & Co. (Canada) Ltd.	Hunt St., Ajax
Rusco of Canada Ltd.	750 Warden Ave., Scarborough
Rush C.J., Architectural Metal Ltd.	215 Nan Tucket Blvd., Scarborough
Sawicki Welding	R.R. # 1, St. George
Seneca Steel and Iron Works Limited	Sann Rd., Beamsville
Sentinel Aluminum Products Co. Ltd.	150 Rainside Rd., Don Mills
Sherwood, P.A. Windows Ltd.	26 Advance Rd., Toronto
Shower Door of Canada (Div. of R.S. Titchell Sales Co. Ltd.)	3422 Bathurst St., Toronto
Shullys Automatic Heating & Cooling Co. Ltd.	73 Wingold Ave., Toronto
Smith Steel Fabricating Company	2576 St. Clair Ave. W., Toronto
Spencer Steel Ltd.	1145 Western Rd., London
Stafford's Aluminum Ltd.	12 Tabor Rd., Rexdale
Star Aluminum Products	1281 Queen St. W., Toronto
Steelcraft Mfg. Co. of Canada Ltd.	3425 Derry Rd. E., Malton
Sterling Factories of Canada Ltd.	41 Lewis St., Fort Erie
Storm Seal Aluminum Limited	Hwy. # 2, Brantford (Cainsville)
Streamline Metalcraft Co. Ltd.	86 Martin Ross Ave., Downsview
Sudbury Steel Construction Ltd.	2273 LaSalle Blvd., Sudbury
Superior Railing	10 Hastings Ave., Toronto
T.J.C. Home Products Limited	1530 Weston Rd., Weston
Taylor Garage Doors of Canada Ltd.	35 Challenge Rd., Rexdale
Taymouth Industries Ltd.	42 Queen Elizabeth Blvd., Toronto
Thermotex Windows of Canada	100 Toryork Dr., Toronto
Tope, G. & Son	1 Main St., Jordan
Toronto Steel Fabricators	2107 Midland Ave., Scarborough
Toronto Window Mfg. Co. Ltd.	165 Centre St., Richmond Hill
Trudel & McAdam Ltd.	37 Grenfell Cr., Ottawa
Twin-Lock Iron Works Ltd.	279 Oakdale Ave., St. Catharines
U.T.O. Mfg. Ltd.	37 Cosentino Dr., Scarborough
Universal Sections Ltd.	100 Canadian Rd., Scarborough
United Fabricators Ltd.	2057 Oxford St. E., London
United Iron & Machine Works Ltd.	72 Cataract St., Kingston
Vampeco Aluminum Products Ltd.	456 Albert St., Strathroy
Vandenbelt Metal Works Ltd.	1090 Dubeau St., Ottawa
Ventil-Aire Limited	2696 St. Clair Ave. W., Toronto
Venus Aluminum Products Ltd.	11 A Thora Ave., Scarborough
Verne - Lyons Metal Industries	9 Meadow Lane, Dundas
Viceroy Aluminum Limited	R. R. # 6, Guelph
Voight, Gerhard & Son	769 Little Simcoe St., London
Walter's Welding & Iron Works Ltd.	1016 Upper Wellington St., Hamilton
Watson Metals Ltd.	3260 Lenworth Dr., Cooksville
Weatherlight Aluminum Storms	142 Millwick Cr., Weston
Weldcraft Company	164 Charing Cross, Brantford
Welders Ornamental	341 Lake St., St. Catharines
Wellington Welderies Limited	15 Alma St. S., Guelph
Wenger, E.	718 Ossington Ave., Toronto
Weston Ornamental Iron Works Ltd.	1331 Martingrave Rd., Rexdale
Weston Steel Products Ltd.	30 Brydon Dr., Rexdale
Willoughby, Mel	Hwy. 17 N., R.R. # 2, Sault Ste-Marie
Win-Dor Storms Ltd.	332 Horner Ave., Toronto
Window Design Ltd.	63 Jefferson Ave., Toronto
Windsor Astro Welding	950 Howard Ave., Windsor
Windsor Metal Masters	2370 Central Ave., Windsor
Wonder Window Mfg. Co. Ltd.	1602 Haig Blvd., Port Credit
World Steel Co. (Canada) Ltd.	Michigan Ave., Point Edward
Wrought Iron Ornamental Works	2388 B Lake Shore Blvd. W., Toronto
Wrought Iron Products	Clark Sideroad R.R. # 8, London
Young, K.C. & Sons	1185 Roselawn Ave., Toronto
Z-Bar Door of Canada Ltd.	1776 Midland Ave., Scarborough
<b>Manitoba:</b>	
Atlas Industries	1835 A Agaard Ave., P.O. Box 491, Brandon
Dominion Bronze Limited	1111 Chevrier Blvd., Winnipeg
Dominion Bronze Limited (Window Div.)	1111 Chevrier Blvd., Winnipeg
Dorsch Iron Works	534 Stewart St., St. Charles
Dorwin Industries (1964) Ltd.	1524 Erin St., Winnipeg
Empire Iron Works Ltd.	1001 Jarvis Ave., Winnipeg
Erin Iron Works	Lot 57 Springfield Rd., Winnipeg
General Machine & Welding Limited	148 Grandin St., St. Boniface

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
<b>Manitoba - Concluded:</b>	
Henry's Iron Works .....	2619 Henderson Hwy., East St. Paul
Humphrey Products of Winnipeg Ltd. ....	611 Ferry Rd., Winnipeg
Kings Ornamental Iron Works .....	354 Main St., & Box 14, R.R. # 1 Winnipeg
Norwesto Aluminum Products .....	20 Beecher Ave., Winnipeg
Reimer Overhead Doors .....	Treisen Ave. W., Steinbach
Shodor Industries (Shower Door Specialties) .....	763 Portage Ave., Winnipeg
Storm-Tite Industries .....	1510 Wall St., Winnipeg
Tatra Ornamental Iron Works .....	111 Burnett Ave., North Kildonan
Watson Iron & Wire Ltd. ....	711 Maryland St., Winnipeg
Western Tools and Industries (1960) Ltd. ....	450 Sheppard St., Winnipeg
Wolfe's Iron Works Ltd. ....	291 Sherbrooke St., Winnipeg
Wrought Iron Products .....	634 Erin St., Winnipeg
<b>Saskatchewan:</b>	
Alglaze Manufacturing Ltd. ....	28-4th Ave. N.W., Swift Current
Aluminum & Allied Products Ltd. ....	337 River St. W. Moose Jaw
Alumiseal Limited .....	805 Ave. P. South, Saskatoon
Puturama Windows (Sask.) Co. Ltd. ....	630-10th St. E., Saskatoon
Hanson Wrought Iron Works .....	1111 Louise Ave., Saskatoon
Humphrey Aluminum Products .....	154 Albert St., Regina
Ivans Iron Railings .....	442 Quebec St., Regina
Macco Aluminum Products .....	Corner Cheadle St. & 5th Ave. N.W., Swift Current
Modern Iron Products .....	140 Avenue C. South, Saskatoon
Nutana Iron Works .....	620 Main St., Saskatoon
Saskatoon Ornamental Iron Works .....	640 Ave. M. South, Saskatoon
Stevens Aluminum Products Ltd. ....	634-10th St. E., Saskatoon
Wescab (Sask.) Ltd. ....	715-42nd St., Saskatoon
<b>Alberta:</b>	
Alberta Iron Works .....	11532-80th St., Edmonton
AlSCO Carlton .....	1030-34th Ave. S.E., Calgary
Alum Awning & Window Products Ltd. ....	1802-1st St. N.W., Calgary
Anderson; A Metalcraft Ltd. ....	10540-121st St., Edmonton
Art's Ironcraft .....	232A-12th St. C. N., Lethbridge
Artistic Iron Works .....	3625-93rd St., Edmonton
Atco Industries Ltd. ....	1243-48th Ave. N.E., Calgary
Ber Dick Mfg. Ltd. ....	4418-16th St. S.E., Calgary
Brays Ornamental Iron .....	829-2nd Ave. S.W., Calgary
C.K. Steel & Machinery Limited .....	4243-17th A St., Calgary
Custom Sun Screening Ltd. ....	1812-10th Ave. S.W., Calgary
Dan Pat Products Ltd. ....	9435-63rd Avenue, Edmonton
Dominion Bronze Limited .....	14511-118th Ave., Edmonton
Economy Windows .....	9654-106 A Ave., Edmonton
Edmonton Iron and Wire Works Ltd. ....	14505-122th Ave., Edmonton
General Tinning Co. Ltd. ....	10581-105th St., Edmonton
Gene's Welding & Ornamental .....	10411-95th St., Edmonton
Glenow Sash & Door Co. Ltd. ....	336-35th Ave. N.E., Calgary
Guido's Welding & Mfg. Ltd. ....	1810-10th Ave., W. Calgary
Hollyview Aluminum Products Ltd. ....	11690-147th St., Edmonton
Humphrey Aluminum Windows Ltd. ....	7319-82nd Ave., Edmonton
Industrial Iron Works Ltd. ....	4020 Edmonton Trail, Calgary
Jacobs Ornamental Iron Works Ltd. ....	10552-114th St., Edmonton
Nu-Fold Doors of Canada Ltd. ....	9908-65th Ave., Edmonton
Precision Window & Awning .....	5202-54th Ave., Red Deer
Quality Ornamental Iron Works Ltd. ....	4515-6th A St. N.E., Calgary
Schieve Aluminum Window & Door Ltd. ....	10115-81st Ave., Edmonton
South Side Ornamental Iron Works .....	7351-104th St., Edmonton
Universal Iron Works .....	201-3rd. S. W., Calgary
Wasu Custom Steel Mfg. Co. Ltd. ....	820-9th Ave. S.W., Calgary
Wemas Metal Manufacturing Co. Ltd. ....	616-35th Ave. N.E., Calgary
Western Aluminum Products Ltd. ....	2110-48th St. E., Calgary
Wescab Mfg. Ltd. ....	8910-125th Ave., Edmonton
Western Building Sealants Contracting Ltd. ....	1740-41st Ave. S.E., Calgary
Western Ornamental Iron Works .....	240-3rd Ave. S. E., Calgary
Zeidler Aluminum Products (Div. of W.R. Zeidler (1962) Ltd.) .....	10203-86th Ave., Edmonton
<b>British Columbia:</b>	
A.B.C. Iron Works .....	7015 Buller Ave., North Burnaby
Accurate Ornamental Iron Works .....	234 E. 4th Ave., Vancouver
All-Alume Greenhouses Ltd. ....	878 Anderson Cres., West Vancouver
Almetco Mfg. Corp. Ltd. ....	New Westminster
Art Iron Limited .....	5550 E. Hastings St., Burnaby
Art Iron Works .....	507 Ellice St., Victoria
B.C. Greenhouse Builders Ltd. ....	7498 Griffiths Ave., South Burnaby
B.C. Iron Art .....	7183 Curragh Ave., Burnaby
Broadway Iron Works .....	1647 Kingsway, Vancouver
Chapmans Welding Shop .....	640 Campbell River, Courtenay
Clearbrook Ornamental Iron .....	32459 Fraserway, Clearbrook
Cole's Iron Works .....	Gibsons, R.R. # 1
Columbia Sash & Door Ltd. ....	261-12th St., New Westminster
Crescent Iron Works .....	22543 Lougheed Hwy., Haney
Custom Craft Iron Ltd. ....	10343-136 A St., Walley
Esquimalt General Repair Shop .....	614 Grenville Ave., Victoria

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
<b>British Columbia - Concluded:</b>	
European Iron Works .....	3869 Commercial Drive, Vancouver
Ever-Brite Aluminum Products Ltd. ....	1170 W-14th St., N. Vancouver
F.M. Artistic Iron Works .....	1575 Franklin St., Vancouver
Flexible Window Screens Co. ....	436 Vanguard Rd., Richmond
General Iron Works .....	20253-42 Ave. R.R. # 2, Langley
Helvetica Iron Works .....	7810 Edmond St., Burnaby
Hollvercraft Building Products Ltd. ....	5085 Regent St., North Burnaby
Ideal Pool & Patio Supply Ltd. ....	1422 Main St., North Vancouver
Imperial Glass Ltd. ....	5085 Regent St., North Burnaby
Inlet Metal & Machining Co. Ltd. ....	105 Fell Ave., N. Vancouver
Ironcraft Art Metal Products Ltd. ....	1558 Cedar Hill Crossroad, Victoria
Ironcraft Company .....	1570 Boundary Rd., Vancouver
Island Ornamental Iron Works .....	871 Alexandra Rd., Richmond
J.M. Iron Work .....	188 W. 71st Ave., Vancouver
Janzen Henry .....	20504-66th Ave. RR # 4, Langley
Johnstone Fabricators Limited .....	1250 E. Pender St., Vancouver
Kamloops Ironcraft .....	340-12th Ave., Kamloops
Kenmar Ornamental Iron .....	45851 Yale Rd. W., Chilliwack
Kingsway Fireplace Appliances & Ornamental Metal Ltd. ....	996 Kingsway, Vancouver
Klenn, K. Ornamental Iron Works .....	2932-176 St. R.R. # 2, Cloverdale
Midway Wrought Iron Works .....	525 Second Ave., Prince George
N.K. Aluminum Products .....	1260-8th St., North Kamloops
North West Iron Works Limited .....	1425 Clyde Ave., West Vancouver
Old Country Metal Craft .....	2948 Bridge St., Victoria
Ornamental Bronze Company Limited .....	1125 Vernon Drive, Vancouver
Pacific Welding & Metal Works Ltd. ....	5511 Roy St., North Burnaby
Pearson Wire & Iron Works Ltd. ....	2105 Franklin St., Vancouver 6
Penso Industries Ltd. ....	12366-112 A Ave., North Surrey
Reliance Windows Limited .....	950 S.W. Marine Drive, Vancouver
Riverside Iron Works Ltd. ....	1887 Marine Drive, North Vancouver
Royal City Welding & Iron Works Ltd. ....	1027 Royal Ave., New Westminster
Rusco Windows & Doors (BC) Ltd. ....	257 Brunswick St., Penticton
Scandia Iron & Metal Works Ltd. ....	2810 Morland Ave., North Burnaby
Severson Ironworks .....	10601 Span Rd., North Surrey
Starline Products Ltd. ....	1227-168 St. R.R. # 4, White Rock
Surrey Ironworks Limited .....	12294-104th Ave., North Surrey
Swan Metals Ltd. ....	652 E. Broadway, Vancouver
Swiss Canadian Ornamental Iron Ltd. ....	7002 McPherson Ave., South Burnaby
Thompson Welding .....	2949 Bridge St., Victoria
Tony's Welding Shop .....	414 Tranquille Rd., North Kamloops
Trojan Industries Ltd. ....	4 Huron St., Victoria
United Iron Works .....	1226 Mitchell Rd., R.R. # 2, Richmond
Weldcraft Company .....	1306 Boundary Rd., North Burnaby
Wescraft Manufacturing Limited .....	2157 Keating Rd., Central Saanich
Wickman Aluminum Products .....	235 West 5th Ave., Vancouver

# CONCEPTS AND DEFINITIONS

## Census of Manufactures

### General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the **establishment** (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures; (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

### Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

#### **Head Offices and Auxiliary Units**

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

#### **Employees**

##### **(a) Production and related workers – Manufacturing activities**

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

##### **(b) Production and related workers – Non-manufacturing activities**

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

**(c) Administrative and office employees**

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

**(d) Sales and distribution workers**

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

**(e) Total Employees**

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

**Working Owners or Partners**

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

**Salaries and Wages**

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages,

bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

**Fuel and Electricity**

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

**Materials and Supplies**

**(a) Manufacturing activities**

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

**(b) Non-manufacturing activities**

**1. Purchases for re-sale as such**

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

**2. Other materials and supplies used**

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of

purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

## **Shipments**

### **(a) General**

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

### **(b) Shipments of goods of own manufacture**

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

### **(c) Shipments of goods not of own manufacture**

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

### **(d) Other revenue**

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

## **Inventories**

### **(a) Manufacturing activities**

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the

receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

**(b) Non-manufacturing activities**

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

**Value Added**

**(a) By manufacturing activities**

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

**(b) By non-manufacturing activities**

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

chased for re-sale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

**(c) By Total activities**

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".



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